## Libby rewriting asbestos research

## Medical experts told to think differently at Missoula conference

By MATTHEW BUNK

Western News Reporter
Medical experts will need to rewrite
research methods to treat Libby individuals exposed to the "nasty" type of
asbestos fibers plaguing the town, a
panel of asbestos experts concluded
Monday during a conference in
Missoula.

A nine-member group of federal, state and private researchers presented plans to revolutionize current methods of asbestos study during the Monday morning session of a two-day medical conference called "New Directions and Needs in Asbestos Research." The conference drew about 250 researchers/doctors from all over the United States and Europe.

The primary objective of the seminars is to define treatment standards for asbestos sufferers, identify the most potent exposure pathways, track the progression of illness and to initiate effective research patterns.

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The asbestos problem in Libby, which gained national media attention in 1999, deserves specific attention due to the strange and often-terminal nature of the mineral type once mined there.

"Many of you have not worked with this before," said program director Andrij Holien, a University of Montana researcher. "This is different than most amphiboles (asbestos). It is a different mechanism."

Doctors cringed and whispered as they were shown pictures of the mine spewing plumes of dusty material into the air during its 80 years of opera-

JUN 26,02

tion. More than 24,000 pounds of dusty waste, including about 5,000 pounds of tremolite asbestos, was released each day by the W.R. Grace vermiculite mine. Tremolite, designated as one of the most deadly forms of asbestos, formed naturally along with the vermiculite ore mined at Libby.

Among the presenters was Dr. Alan Whitehouse, a pulmonary expert from Spokane, who told the group that tremolite causes progressive types of lung disorders that many times lead to death.

No studies have proven conclusively that other types of commercial asbestos cause progressive lung disease. Whitehouse said that his studies show a 76-percent progression rate from tremolite-related pleural plaquing, patches of hardened discolored tissue on the lining of the chest cavity, to severe complications such as

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Conference

Continued from Page 1 asbestosis, lung cancer and mesothelioms, a rare type of malignancy indicative asbestos exposure.

While cases of mesothelioma appear in approximately one out of I million in the general population of the U.S., doctors in Libby reported that about 23 cases of "meso" have popped up in Libby in recent years, an astonishing number when paired with a population of around 12,000. Since 1979, 169 Montana deaths, 153 of them proven by histological evidence, have been caused by meso, according to Dr. Mike Spence, state health officer.

Those figures, along with private practice research, prove a link between progression and early-stage symptoms of expotremolite. said tΩ Whitehouse, who has treated 442 asbestos patients in the past two decades. Thirty-six of those patients have died, 15 from tumors associated with asbestos exposure and another 16 from respiratory failure, Whitehouse reported.

"Pleural disease is progres-sive." Whitehouse said. "It is not benion.

"Pleural disease, for the most part, is not described as progressive with chrysotile asbestos, at least not to the degree we see here."

That's the kicker, say asbestos victims.

"We're the petri dish of the t'nob enotion to tol a - bhow know what they are dealing with," said victim advocate Gayla Benefield, an asbestosis patient who lost both parents to asbestos-related disease. "The main thing is that the doctors make a distinction between tremolite and other asbestos types. We already know it's bad, now we just need to hear the experts say so."

Eighteen percent of the 7,299 Libby-area residents screened sustained asbestos-related lung changes, according to the federal Agency for Toxic Substances: and Disease Registry. The screenings do not confirm asbestos-related diseases, said Dr. Jeff Lybarger, of the ATSDR. The screenings, conducted in 2000-2001, showed that former W.R. Grace mine employees are 7.7 times more likely to develop a lung abnormality than other Libby residents that report such vicarious exposures as playing in verniculite piles around town or merely participating in athletic activities at local schools and ball fields where tremolite was the discovered by Environmental Protection Agency.

"However, living with a mine worker is also a significant form of exposure," Lybarger said.

"Household contact presents a 3.3 times greater risk.

Cigarette smoking increased body mass also contribute to the lung defects, Lyberger said, but not nearly as

much as regular, cio contact with the mine or miners. Smoking is a "key risk factor" with the potential to double the risk of developing an abnormality, Lybarger said.

The EPA emergency response team, which three years ago set up an on-site headquarters in Libby, also discovered that pure tremolite was used to sand the streets during winter months, said EPA toxicologist Chris

More than 850 Libby residents have been diagnosed with an asbestos-related disease, a rate of more than 40 times the national average, according to Lincoln County health officer Dr. Brad Black. He estimates another 400-500 people may join that list in coming years. ATSDR estimates confirm Black's suspicions, noting that more than 1.200 are expected to develop an ashestos related disease.

However, Black admitted be had not established a standard of diagnosis to clearly define what asbestos-related disease actually is. He said that is part of why the Libby medical community is petitioning the rest of the medical world for help, so that guidelines can be established.

"You obsolutely need a standard to make a clinical diagnosis," said Dana Headopahl, a Missoula researcher, "Otherwise you have nothing to compare it

Some asbestos experts have completely rejected the criteria

the 18 possible methods of expo-Lybarger noted that the risk of disease increases comparatively with the number of ways a per-son is exposed. One of his studies showed individuals with six or more instances of exposure an individual who had only one develop a lung abnormality than were five times more likely sure identified in Libby. pathway is not as But insulation exposure is not

The raine near Libby supplied ŧ major railheads that transused in home insulation and gardening additives, It is estimated that 10-30 million homes in the world's vermiculite, which ö percent contain corted this stuff." more than 80 country

abnormalities," other than And the problem is not going away, Spence added. He estimates the effects of exposure problem is not as isolated as they hope. The EPA is now Spence warned that the Libby could last for another 50 years. cancer or meso, Spence said. about 250 crutinizing night

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6 5 or autopsy is the only o determine a case of Baltimore, is one of those critics. He says histological evidence by said histolto determine a case Johne Hopkins Hospital though ORY is undecessary. Spence

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